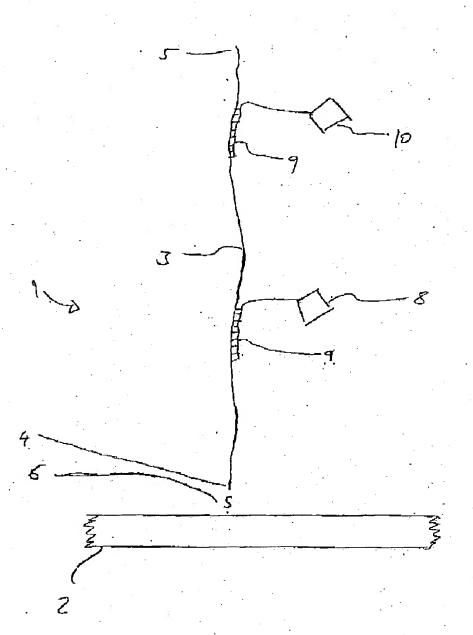


FIG. 1



F16.2

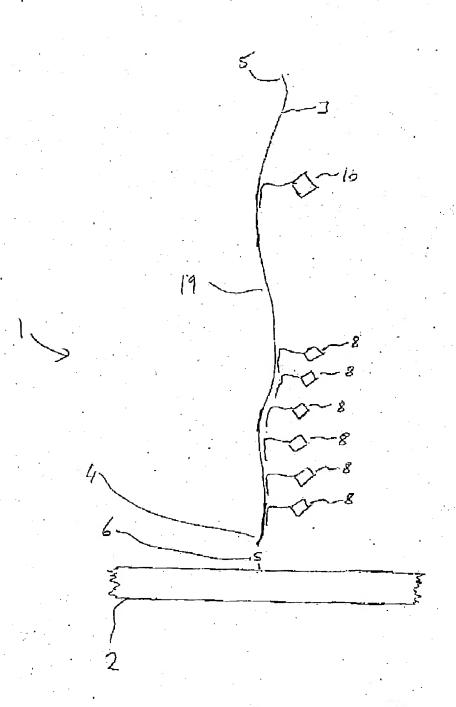
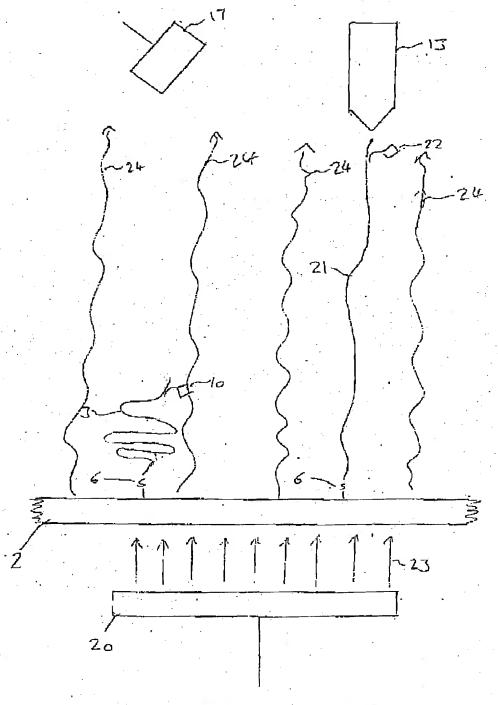
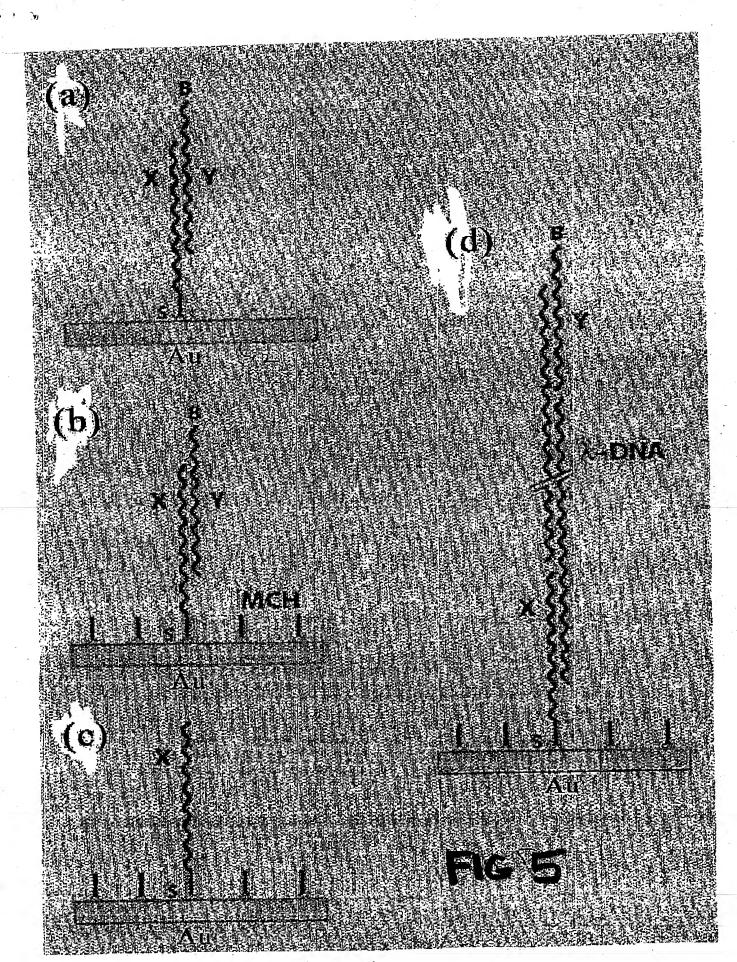
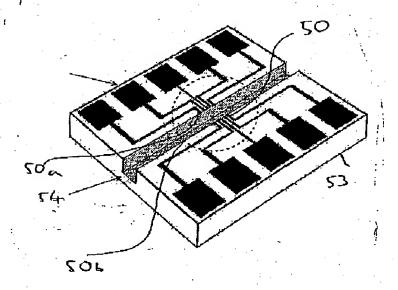


FIG. 3

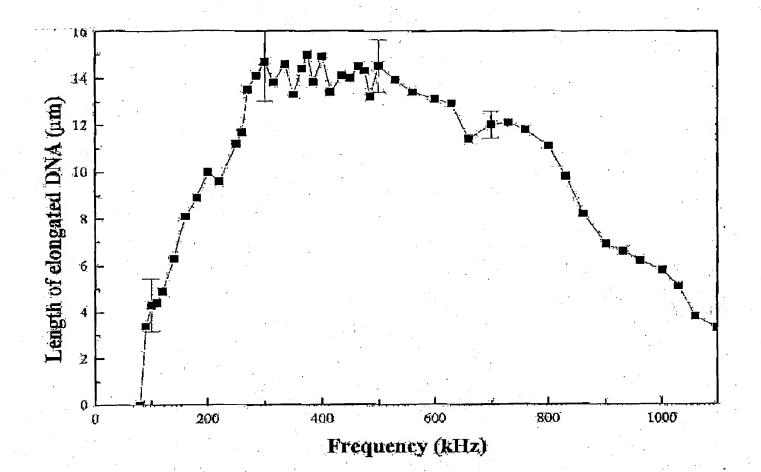


F16.4





F1G. 6



F1G. 7

 $\frac{---}{20~\mu m}$

F16.8

61 81 60 Mirror 5 W Ar laser APD 74 81 82 Iris diaphragm 530 nm LPF 488 nm BPF 80 64 10x and 20x objectives Fiber coupler Laser beam GR2 Mirror Si PD DNA coated 64 gold electrodes Wafer

· 43

F16.9